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CHAPTER VIII—PUBLIC WORKS, ELECTRICAL AND ROAD TRANSPORT DEPARTMENTS.

(i) Public Works.

790. The main objects of the Five Year Plan are (1) to secure an increase in the production of food grains by the construction of new Irrigation Works and improvements to existing works, and (2) to construct and improve roads and bridges for better communication facilities to lift up the economic condition of the people. The Malnad Development Works also aim at similar objects in Malnad Districts of the State.

791. Under Irrigation and Power, 20 works were in progress and 15 new schemes were included so as to bring under irrigation a new extent of 83,787 acres of new lands and assuring irrigation on 2,965 acres of the existing wet lands.

Bhadra Reservoir Project.

792. The revised cost of the project is Rs. 1,775·00 lakhs. The project commands an irrigable area of 3·00 lakhs of acres, of which 2,24,200 acres were selected for irrigation. The expenditure to the end of the year from the commencement was Rs. 115·86 lakhs.

Tunga Anicut and Channels.

793. The total cost of the work is Rs. 250 lakhs and the expenditure to the end of the year was Rs. 100·85 lakhs. The anicut was completed and irrigation channels 20 miles on the Left Bank and 4 miles on the Right Bank have been opened out. It is proposed to allow water in the completed portions so that about 5,000 acres could be immediately developed.

794. The cost of the Nugu Reservoir work was Rs. 220·00 lakhs and the expenditure to the end of the year was Rs. 84·60 lakhs. The opening of a channel 57 miles long for developing 20,000 acres was under consideration.

795. The restoration of tanks was rapidly executed in Kolar, Tumkur, Shimoga and Mysore Districts. Shimoga District alone has restored 7,000 minor tanks. Under the Distress Relief programme, a large number of tanks were taken up for desilting and the work also formed a part of restoration.

796. A large number of works were taken up under the scheme of improvements to river, tank and feeder channels including pick-ups during the year. The flow in the Irrigation Channels from Rivers and Tanks improved and the water supply to lands was assured.

797. The Hebbahalla is the only work included under Land Improvement schemes and is nearing completion.

798. The Malnad Development Schemes were all nearing completion.

799. The several schemes under Transport comprise of the following sub-schemes. The expenditure incurred against the Budget provision during the year was as follows :—

	In lakhs		
	Plan	Budget	Outlay
	Rs.	Rs.	Rs.
(*a*) Formation of New Roads and Improvement of Existing roads.	6·00	6·22	30·15
(*b*) Cement concreting roads ...	3·50	15·78	
(*c*) Asphalting of roads ...	24·00	8·29	
(*d*) Construction of New Bridges, etc.	10·00	10·82	7·02
(*e*) Purchase of tools and plant.	6·00	4·00	0·74
(*f*) Special repairs to roads ...	...	13·00	15·39

800. An expenditure of about Rs. 15·00 lakhs for cement concreting of roads was incurred and a total length of 20 miles 7½ furlongs was concreted.

801. The loans and subsidy sanctioned for the year by the Central Government in respect of the Grow More Food schemes were :—

	In lakhs		
	Programme	Loan	Subsidy (grant)
	Rs.	Rs.	Rs.
Construction of big tanks ...	20·41	10·00	5·10
Restoration of minor tanks ...	30·00	15·00	7·50
Desilting of tanks ...	10·00	5·00	2·50
Land Improvement Schemes ...	10·00	5·00	2·50
Construction and Improvements of river, tanks, channels, etc.	30·00	...	7·50
Total ...	100·41	35·20	25·10

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802. The loan portion was to be re-payable with interest in equated instalments and the subsidy was to be adjusted on the basis of the actual expenditure incurred in the year.

803. All Grow More Food Schemes were included in the Five-Year Plan, partly under Irrigation and Power and partly under agriculture.

804. Desilting of tanks under which the accumulated silt of tanks was removed and used to strengthen the bund, was undertaken widely and an expenditure of Rs. 9·39 lakhs was incurred.

805. Restoration of tanks have been taken up on an intensive scale in Tumkur and Kolar Divisions as part of the earthwork can absorb labour from affected areas.

806. The final grant for the year under all heads amounted to Rs. 5,85,09,200 against which an outlay of Rs. 5,03,65,831 was incurred including the expenditure on contribution works, District Board Works, etc.

807. The expenditure was less than the grant by Rs. 81,43,369.

808. Some of the important works in progress during the year were : —

1 *Construction of the reservoir across Bhadra at Lakkavalli.* This forms one of the major irrigation schemes in Tungabhadra basin in the north-western part of the State.

2. *Construction of an anicut across Tunga near Sacrebyle, Shimoga Taluk.*—This scheme is taken up for Irrigation in regions of low rainfall in Shimoga and Honnali Taluks. Against the revised estimate of Rs. 1·5 crores, an outlay of Rs. 97,90,316 has been incurred up to the end of March 1953.

3 *Construction of a reservoir across the river Nugu near Birwal.*—It is designed to construct a Dam 110 ft. high with an effective storage capacity of 5,440 M.Cft. for irrigating 20,000 acres.

4 *Opening a right bank high level channel from Nugu Reservoir.*—The channel was designed for a length of 57 miles to irrigate an extent of 20,000 acres of land. A length of 11 miles at the commencement has been tackled and six miles length of channel has been excavated so far.

5 *Protective works to the waste weir of Krishnaraja Sagar Dam.*—Major portion of the work done relates to 106 valleys where cement concrete work was done.

6 *Improvements to Hulhalli Channel.*—Work was in progress.

7. Diverting Lakkur-Honnavar waste weir water into Chikachagahalli major tank, Hole-Narasipur taluk.

Earthwork excavation for feeder channel was in progress.

8. Constructing an Anicut across the Lokapavani near Bolenahalli and opening Feeder channel.—The atchkat contemplated was 728 acres. The project was since revised for Rs. 8 lakhs.

9. Constructing Anicut across the Veeravaishnavi, near Ankanahalli.—Irrigation would be accorded to about 375 acres on completion shortly.

10. Restoring Jodi Alpahalli Hutchikere.—This irrigates 180 acres after completion. Earthwork to bund and revertment works was in progress.

11. Opening of Hebbahalla pick-up channel.—This was designed to pick up nearly 150 cusecs of water (now running to waste) and make use of the same to feed the tail end lands of Hebbakkavadi branch of Visvesvaraya Canal.

12. Constructing an Anicut across the Lokapavani near Uyyanahalli—The porject when completed would irrigate 1952 acres.

13. Widening Markalu pick-up channel.—It is expected to supply water to 1,500 acres of tail end of Nidaghatta branch which is in progress.

14. Extending Marehalli tank high level channel.—This brings under irrigation an atchkat of 1,300 acres.

15. Breaching of Malavalli Tank as an Anti-Malaria measure. This work was completed.

16. Constructing a New Tank across Jayamangala near Irkasandra, Koratagere Taluk.—Work was almost completed.

17. Constructing a New Tank across Jinigehalla near Sangenahalli in Chitaldrug District.—Major portion of the work was completed.

18. Constructing a Reservoir across Suvarnamukhi River near Kariyala Village, Chitaldrug District.—This reservoir is intended to irrigate 2,650 acres of land.

19. Construction of Vidhana Soudha Buildings, Bangalore. The estimated cost of Vidhana Soudha Buildings was Rs. 50 lakhs and the foundation stone was laid by the Prime Minister of India, during 1951-52. During the year Rs. 4.86 lakhs was spent on the work.

20. Construction of a Building for the Accountant General's Office, Bangalore at an estimated cost of Rs. 14,60,000 was taken up in June 1953.

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809. The final grant for the year for cement concreting of roads was Rs. 16,85,500 against which an expenditure of Rs. 14,82,255 was incurred during the year.

810. The final grant for the year was Rs. 10,06,000 against which an outlay of Rs. 9,94,633 was booked during the year.

Cement concreting of roads.

Asphalting of roads, etc.

811. Some of the important works in progress during the year were :—

1. Tarring Bangalore-Magadi-Huliyurdurga Road, Bangalore District.
2. Asphalting B. H. road in Tiptur town limits.
3. Tarring Tumkur-Bellary Road in Koratagere Town.
4. Tarring Tumkur-Bellary Road in Madhugiri Town, and
5. Asphalting Kadur-Mangalore Road from Kadur in Chickmagalur for about 7 miles.

Major Water Works.

812. The major water works were :—

1. Chamarajasagar, Thippagondanahally;
2. Vani Vilas Water Works, Mysore; and
3. Kolar Gold Fields Water Works.

813. The demand for water in Bangalore has been ever on the increase due to the laying of fresh extensions, increase in population and establishment of new industries.

Chamarajasagar old and new.

814. During the year, 426.80 million gallons of water at Soldevanahalli and 3652.994000 million gallons of water at Chamarajasagar were pumped out, which worked out to an average of 11.7 million gallons of water as against 11.706 during the previous year.

815. The total quantity of water supplied during the year to the various localities were :—

		Million gallons
1.	City Area including extensions ...	2754.805
2.	Civil Station area ...	1240.578
3.	Industrial concerns outside the Municipal limits ...	72.932

816. The average consumption of water per head per day was 14 gallons. Revenue collected during the year was Rs. 20,47,052 against the opening balance of Rs. 1, 35,709.

Mysore Water Supply.

817. The quantity of water pumped during the year was 19,16,68,4,000 million gallons. The average pumping was 52, 52,000 million gallons daily as against 53,01,000 in the previous year.

Net Receipts.

818. The net revenue receipts from Power Supply after paying off all working expenses on Establishment, Audit and Account charges, tools and plant, suspense and maintenance proper with contributions for depreciation funds amounting to Rs. 52,24,280 was Rs. 92,36,998 against the budget anticipation of Rs. 81,60,000. The year's net receipt was below that of the previous year by Rs. 7,46,534. This decrease was due to the enhanced amount of contribution to depreciation fund amounting to Rs. 52,24,280 on the entire capital of the Department commencing from 1952 on account of commissioning all the generating units at Jog as against the previous year's contribution of Rs. 34,70,389 excluding the contribution due on the capital expenditure of Mahatma Gandhi Hydro-Electric Scheme.

819. The realised net receipt of Rs. 92,36,998 during the year worked out to 4·2 per cent on the Capital invested on Electricity Schemes up to the end of the year.

Depreciation Fund Account.

820. A contribution of Rs. 52,24,280 was made out of the revenue of the Department to the depreciation fund and an expenditure of Rs. 11,42,250 was incurred. For the first time, contribution to this Fund was adjusted on the Capital expenditure of the Mahatma Gandhi Hydro-Electric Project.

821. The transactions of the fund were as below :—

Opening balance ...	...	2,39,87,541
Contribution during the year	...	52,24,280
		2,92,11,821
Deduct expenditure ...	...	11,42,250
Closing balance ...	...	2,80,69,571

Rebates.

822. No rebate was allowed nor waiver of legitimate demand conceded except for refund of minor excess collections on individual installations wherever necessary and justified.

Stores.

823. The Foreign and Local purchases made during the year amounted to Rs. 2,45,67,688 (Rs. 2,10,00,831).

Interruptions.

824. There were 25 interruptions lasting for a total period of 2 hours and 47 minutes and 4 pre-arranged shut-downs lasting 14 hours and 35 minutes throughout the system. Due to the burning of a cable in K.G.F. Power

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Accidents.

Station, a long shut down of 13 hours and 55 minutes was arranged.

825. There were 32 fatal accidents to persons of whom 3 were departmental men. Of these 28 were due to electrocution and the rest for other causes like fall, slips and suicides.

(ii) Electrical Department.

826. The health of the employees and their families was maintained efficiently in all the major electric colonies. The hospitals at Sivasamudram, Jog and Shimsha were well maintained and facilities for the treatment of in-patients provided. Contributions for the Mysore Iron and Steel works Hospital at Bhadravati were paid.

827. The Department had a large share in the National as well as the State Five Year-Plan under "Development of Power Projects and Distribution" during the year, since all its Capital works were envisaged in the detailed Plan amounting to Rs. 12·68 crores for the five years commencing from 1951-52. The second year of the plan provided for a Capital expenditure of Rs. 285 lakhs against which the voted Budget Grant was Rs. 215 lakhs including a sum of Rs. 50 lakhs for power supply to irrigation pump sets.

828. The Mahatma Gandhi Hydro-Electric Project Works, except for some necessary protective works were completed both at Jog Generating Station and Bhadravati Receiving Station and all the eight units were commissioned for service in the first half of the year and 50 cycle power supply brought to the new Receiving Station, Bangalore.

829. The total number of towns and villages electrified for the past three years was:—

1950-51	...	...	473
1951-52	...	...	511
1952-53	...	...	584

830. Twelve thousand and fifty-three fresh installations for industrial, agricultural, domestic heating and lighting and cinemas were serviced during the year.

831. With the loan of Rs. 50 lakhs from the Government of India, 957 irrigation pumps were served with

power supply during the year. The number of electrically driven irrigation pumps at the end of the year stood at 4,354 against 3,387 at the end of the previous year.

832. Thirty thousand four hundred and forty-seven (27,539) street lights ranging from 25 to 250 watts and 60 c. p. to 1000 c. p. were in service in several cities, towns and villages in the State at the end of the year.

833. The bulk supply of power to the Madras Government at Kollegal, Ujjini and Hindupur was continued during the year.

834. The three Generating Stations at Sivasamudram, Shimshapura and Jog have conjointly generated 597,444,300 units of power during the year.

885. The total length of high tension transmission lines of 22,000 volts and above under charge stood at 1,499 circuit miles and 1,047 route miles at the end of the year as against 1,671 and 1,801 miles respectively in the previous year. The reduction of 172 circuit miles and 754 route miles was due to transfer of certain 13·2 kv transmission lines to the jurisdiction of Distribution System.

836. The gross demand exclusively on power supply for the year was Rs. 2,20,65,143 and the collection amounted to Rs. 2,17,08,679 against a revised budget anticipation of Rs. 2,10,80,000. The balance at the end of the year stood at Rs. 21, 56,874.

(iii) Road Transport Department.

837. Refund Rules were amended so that in the event of breakdown or accident caused to a bus enroute, refund of partially used tickets could be made by the conductor on demand to any passenger who is not prepared to wait for the relief bus.

838. Booking Agents were appointed at all intermediate stations with a view to safeguard the Revenues of the Department and to facilitate issue of tickets.

839. In the interest of the travelling public, telephones were installed at the Mysore Depot.

840. One hundred and thirty-four routes were operated at the begining of the year and the average mileage was 10,649·06. As on 31st December 1952, 126 routes were operated and the average mileage of buses daily was

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11,057. Two hundred and two routes were operated from 1st January 1953.

841. The average quantity of petrol consumed by all the vehicles daily amounted to 894·3 (818·573) gallons and the average quantity of diesel oil consumed daily was 172·11 (151·61).

842. There were 21 accidents during the year, of which five were major and 16 minor. A sum of Rs. 700 was paid during the year as compensation to the parties on account of the accidents relating to the 1951-52.

843. The capital investment up to the end of March 1953 was Rs. 25,41,640 (Rs. 27,03,928). The gross earnings realised in the year were Rs. 37,40,699 which works out to 176·19 pies per vehicle mile as against Rs. 33,87,748-1-6 yielding an average of 169·6 pies per vehicle mile during the previous year.

844. The total expenditure during the year inclusive of Road Cess, Service Tax, Depreciation, etc., was Rs. 37,14,971 (Rs. 33,44,741). The net revenue realised during the year after charging of Depreciation, Vehicle Tax, Road Cess, etc., was Rs. 25,728 (Rs. 55,263). The net return on the capital invested was 1·01 (1·59 per cent.

845. Special bus services were arranged to Mysore, Talkad and Sravanabelagola in connection with Dasara-panchalinga Darshana and Mahamastakabhisheka ceremony respectively and the department established a record in regard to facilities to travelling public.

846. The increase of Rs. 3·53 lakhs under gross receipts correspond to the previous year mainly due to the monopoly of 6 routes since 1st January 1953.

847. There was an abnormal increase of Rs. 4·46 lakhs under operation. The expenditure was mainly due to increase in the consumption of spares and reduction in petrol mileage given by the old buses which had completed their full four years of economic service. The market fluctuations, regarding the price of spares, petrol, etc., also contributed for the increase in operation costs.

848. A temporary administrative block was constructed and the Central Offices were shifted to the new premises at Basappa Gardens.